

ECT400-AS-L FOUR CHANNEL UNIVERSAL ANALOG SIGNAL FM OPTICAL LINK WITH UP TO 136 km/85 mi RANGE



Analog Signal
4
→

The ECT400-AS-L FM system provides high performance link for unidirectional transmission of various analog signals over four, two or one a fiber optic cable.

The ECT400-AS-L FM system is fully compatible with ECT100AS, ECT100AS-L, ECT200-AS & ECT200-AS-L type systems allowing for mixed configurations when required.

The ECT400-AS-L system utilizes wideband linear frequency modulation/demodulation and very low noise transmission technology to assure high quality and stability.

FEATURES

- ❑ Wideband FM Transmitting/Receiving Technology
- ❑ Universal Balanced/Unbalanced Input for Transmitter
- ❑ Supports Transmission of Various Analog Signals such as: Video HDTV Tri-Level Sync, T1/E1, RF/IF, Timing, Telemetry Signals and more
- ❑ Operating Range Up to 136 km / 85 miles
- ❑ Four, Two and One Fiber Configurations
- ❑ High Accuracy In/Out Signal Transmission with No Adjustments
- ❑ Signal Status Indicators

Configuration	4 Fiber	2 Fiber	1 Fiber
Operating Wavelength	1550 nm	1530/1570 nm	1490, 1530, 1570, 1610 nm
Optical Core Diameter	8/10μ		
Optical Power Source	DFB Laser		
Optical Power Output	0 (+/- 0.5) dBm		
Receiver Sensitivity:	-44 dBm	-43 dBm	
Optical Connectors	FC, SC, ST		

Signal Bandwidth @ 2dB	10 Hz - 26 MHz
Input Impedance (TX)	50, 75, 100 Ohm, Custom universal: balanced or unbalanced; up to 1 MOhm – unbalanced
Output Load Impedance (RX)	50, 75, 100 Ohm, Custom
Input/Output Signal Level:	
Option 1	0 to +/- 2 V @ 50 Ohm
Option 2	0 to +/- 2.5 V @ 75, 100 Ohm, Custom
Signal Transfer Accuracy	< 5%
Signal-to-Noise Ratio*	64 dB
Input/Output Connector	BNC
Power Requirements:	
Transmitter Card/Module	11 - 15 VDC @ 0.35 A
Receiver Card/Module	11 - 15 VDC @ 0.55 A
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions:	11.6" (295 mm) x 5.2" (132 mm) x 1.05" (27 mm)

*measured with 1km for single mode optical cable and 10 dBm optical attenuation.



ECT400 SERIES

ORDERING INFORMATION

400S-AST/I-M4Z-L – transmitter module 1550 nm / 4 fiber
400S-AST/I-M2Z-L – transmitter module 1530 & 1570 nm / 2 fiber
400S-AST/I-M1Z-L – transmitter module 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-AST/I-C4Z-L – transmitter card* 1550 nm / 4 fiber
400S-AST/I-C2Z-L – transmitter card* 1530 & 1570 nm / 2 fiber
400S-AST/I-C1Z-L – transmitter card* 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-ASR/I-M4Z-L – receiver module 1260 - 1620 nm / 4 fiber
400S-ASR/I-M2Z-L – receiver module 1530 & 1570 nm / 2 fiber
400S-ASR/I-M1Z-L – receiver module 1490, 1530, 1570 & 1610 nm / 1 fiber

400S-ASR/I-C4Z-L – receiver card* 1260 - 1620 nm / 4 fiber
400S-ASR/I-C2Z-L – receiver card* 1530 & 1570 nm / 2 fiber
400S-ASR/I-C1Z-L – receiver card* 1490, 1530, 1570 & 1610 nm / 1 fiber

I = 50, 75, 100 Ohm, Custom for input/output impedance

Z = FC, SC, ST for optical connectors

**compatible with USR type chassis;*

Note: The specifications are subject to change without notice.



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
<http://www.elcommtech.com>